



FCC&IC Radio Test Report

FCC ID: 2AAUI-0022769137

IC: 11210A-GDIBTSP201

This report concerns (check one):⊠Original Grant [Class I Change	Class II Change
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Project No. : 1702C187
Equipment : ECOSLATE
Test Model for : GDI-EXSLT800

Series Model for: GDI-EXSLT801, GDI-EXSLT802, GDI-EXSLT803, **FCC** GDI-EXSLT804, GDI-EXSLT805, GDI-EXSLT806,

GDI-EXSLT807, GDI-EXSLT808, GDI-EXSLT809, GDI-EXSLT810, GDI-EXSLT811, GDI-EXSLT812, GDI-EXSLT813, GDI-EXSLT814, GDI-EXSLT815, GDI-EXSLT816, GDI-EXSLT817, GDI-EXSLT818,

GDI-EXSLT819, GDI-EXSLT820

Applicant: Grace Digital Inc.

Address : 10531 4S Commons Drive #166 Suite #430 San

Diego,CA 92127,United States

Date of Receipt : Feb. 24, 2017

Date of Test : Feb. 24, 2017 ~ Mar. 14, 2017

Issued Date : Mar. 15, 2017
Tested by : BTL Inc.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FICP-2-1702C187	Original Issue.	Mar. 15, 2017

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1. CERTIFICATION

Equipment : ECOSLATE
Brand Name : ECOXGEAR
Test Model for : GDI-EXSLT800

FCC&IC

Series Model GDI-EXSLT801, GDI-EXSLT802, GDI-EXSLT803, GDI-EXSLT804, for FCC GDI-EXSLT805, GDI-EXSLT806, GDI-EXSLT807, GDI-EXSLT808,

GDI-EXSLT809, GDI-EXSLT810, GDI-EXSLT811, GDI-EXSLT812, GDI-EXSLT813, GDI-EXSLT814, GDI-EXSLT815, GDI-EXSLT816, GDI-EXSLT817, GDI-EXSLT818, GDI-EXSLT819, GDI-EXSLT820

Applicant : Grace Digital Inc.

Manufacturer: NEO TELECOM CORPORATION

Address : 7F, 674-24, Anyang Dong, Manan Gu, Anyang City, Kyanggi Do South Korea

Date of Test : Feb. 24, 2017 ~ Mar. 14, 2017

Test Sample : Engineering Sample

Standard(s) : FCC Part15, Subpart C(15.247) / ANSI C63.10-2013

RSS-247 Issue 1, May 2015 RSS-GEN Issue 4, Nov 2014

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FICP-2-1702C187) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247) , Subpart C Canada RSS-247 Issue 1, May 2015, RSS-GEN Issue 4, Nov					
Standard(s	s) Section	Test Item	Judgment	Remark	
FCC	IC				
15.207	RSS-2478.8	Conducted Emission	PASS		
15.247(d)	RSS-2475.5	Antenna conducted Spurious Emission	PASS		
15.247(a)(2)	RSS-247 5.2 (1)	6dB Bandwidth	PASS		
15.247(b)(3)	RSS-2475.4 (4)	Peak Output Power	PASS		
15.247(e)	RSS-2475.2 (2)	Power Spectral Density	PASS		
15.203	-	Antenna Requirement	PASS		
15.247(d)/ 15.205/ 15.209	RSS-2475.5	Transmitter Radiated Emissions	PASS		

NOTE:

(1)" N/A" denotes test is not applicable to this device.

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2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's test firm number for FCC: 319330 BTL's test firm number for IC: 4428B-1

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on astandard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150 KHz~30MHz	2.32

B. Radiated Measurement:

Wedsdrenent.				
Test Site	Method Measurement Frequency Range		Ant. H / V	U, (dB)
		J		2.70
		9KHz~30MHz	V	3.79
		9KHz~30MHz	Н	3.57
		30MHz~200MHz	V	3.82
DG-CB03 CISPR		30MHz~200MHz	Н	3.78
	200MHz~ 1,000MHz	V	4.10	
DG-CB03	DG-CB03 CISPR	200MHz~ 1,000MHz	Н	4.06
		1GHz~18GHz	V	3.12
		1GHz~18GHz	Н	3.68
		18GHz~40GHz	V	4.15
		18GHz~40GHz	Н	4.14

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	ECOSLATE	
Brand Name	ECOXGEAR	
Test Model for FCC&IC	GDI-EXSLT800	
Series Model for FCC	GDI-EXSLT801, GDI-EXSLT802, GDI-EXSLT803, GDI-EXSLT804, GDI-EXSLT805, GDI-EXSLT806, GDI-EXSLT807, GDI-EXSLT808, GDI-EXSLT809, GDI-EXSLT810, GDI-EXSLT811, GDI-EXSLT812, GDI-EXSLT813, GDI-EXSLT814, GDI-EXSLT815, GDI-EXSLT816, GDI-EXSLT817, GDI-EXSLT818, GDI-EXSLT819, GDI-EXSLT820	
Model Difference	Only differ in color.	
	Operation Frequency	2402~2480 MHz
Product Description	Modulation Technology	GFSK(1Mbps)
, , , , , , , , , , , , , , , , , , ,	Bit Rate of Transmitter	Cr Cr(Timopo)
	Output Power (Max.)	6.84 dBm (1Mbps)
PowerSource	1# DC Voltage supplied from AC/DC adapter. Brand / Model: SUNLIGHT ELECTRONIC / GA050100 2# Battery supplied. Model: BLVDS101-26	
Power Rating	1# I/P: 100-240V~ 50/60Hz 0.30A O/P: 5.0V1.0A 2# 3.7V 2600mAh	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

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2. Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	20	2442
01	2404	21	2444
02	2406	22	2446
03	2408	23	2448
04	2410	24	2450
05	2412	25	2452
06	2414	26	2454
07	2416	27	2456
80	2418	28	2458
09	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

3. Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Printed	N/A	0

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3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	TX Mode note (1)

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

	For Conducted Test
Final Test Mode	Description
Mode 1	TX Mode

For Radiated Test		
Final Test Mode	Description	
Mode 1	TX Mode note (1)	

Note:

(1) The measurements are performed at the high, middle, low available channels.

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of BT LE

Test Software Version		BlueTest3	
Frequency (MHz)	2402	2440	2480
BT LE	N/A	N/A	N/A

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3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1m	DC Cable

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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION LIMITS (Frequency Range 150KHz-30MHz)

Fraguency of Emission (MIII-)	Conducted Limit (dBµV)		
Frequency of Emission (MHz)	Quasi-peak	Average	
0.15 -0 5	66 to 56*	56 to 46*	
0.50 -5.0	56	46	
5.0 -30.0	0	50	

Note:

- (1) The limit of " * " decreases with the logarithm of the frequency
- (2) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use) Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipmentspowered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the groundplane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

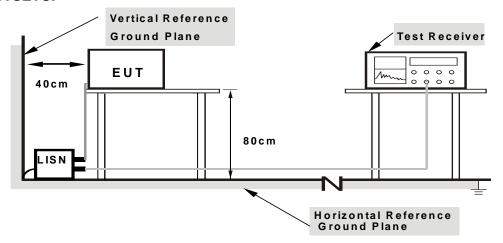
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4.1.4 TESTSETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

4.1.5EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

4.1.6EUT TEST CONDITIONS

Temperature: 24°CRelative Humidity: 60%Test Voltage: AC 120V/60Hz

4.1.7 TEST RESULTS

Please refer to the Attachment A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.
- (3) "N/A" denotes test is not applicable to this device.

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4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

In case the emission fall within the restricted band specified on 15.205(a) and RSS-247 5.5, then the 15.209(a) and RSS-Gen limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (9KHz-1000MHz)

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	(dBuV/m) (at 3 meters)	
Frequency (Miriz)	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15Cand RSS-247.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use) Margin Level = Measurement Value - Limit Value

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Spectrum Parameter	Setting	
Attenuation	Auto	
Start Frequency	1000 MHz	
Stop Frequency	10th carrier harmonic	
RBW / VBW	RBW 1MHz VBW 3MHz peak detector for Pk value	
(Emission in restricted band)	RMS detector for AV value	

Receiver Parameter	Setting	
Attenuation	Auto	
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector	
Start ~ Stop Frequency	90KHz~110KHz for QP detector	
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector	
Start ~ Stop Frequency	490KHz~30MHz for QP detector	
Start ~ Stop Frequency	30MHz~1000MHz for QP detector	

4.2.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation (above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3DEVIATIONFROMTESTSTANDARD

No deviation

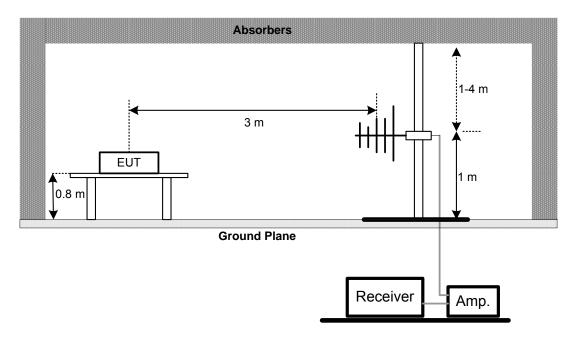
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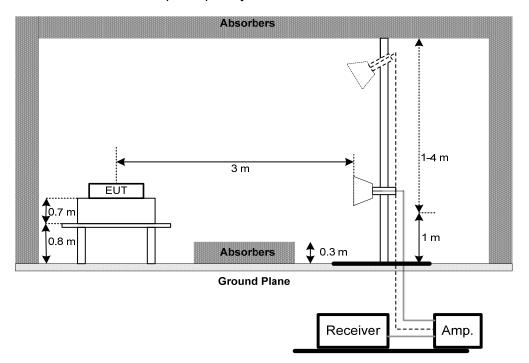


4.2.4 TESTSETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz

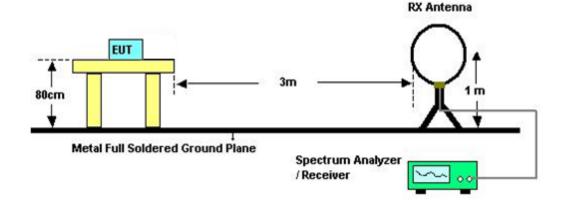


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(C) For radiated emissions below 30MHz



4.2.5EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.2.6EUT TEST CONDITIONS

Temperature: 22°CRelative Humidity: 56%Test Voltage: AC 120V/60Hz

4.2.7TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment B

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.2.8TEST RESULTS (30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

4.2.9TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

(1) No limit: This is fundamental signal, the judgment is not applicable. For fundamental signal judgment was referred to Peak output test.

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5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

- 1						
	FCC Part15 (15.247) , Subpart C / RSS-247					
	Section	Test Item	Limit	Frequency Range (MHz)	Result	
	15.247(a)(2) RSS-GEN section 6.6 RSS-247 5.2 (1)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS	

5.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 EUT TEST CONDITIONS

Temperature: 24°CRelative Humidity: 60%Test Voltage: AC 120V/60Hz

5.1.6 TEST RESULTS

Please refer to the Attachment E.

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6. MAXIMUM OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C / RSS-247							
Section	Test Item	Limit	Frequency Range (MHz)	Result			
15.247(b)(3) RSS-2475.4 (4)	Maximum Output Power	1 watt or 30dBm	2400-2483.5	PASS			

6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074D01 DTS Meas Guidance.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

EUT	Power Meter
	1 OWEI MELEI

6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 60%Test Voltage: AC 120V/60Hz

6.1.6 TEST RESULTS

Please refer to the Attachment F.

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7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum ordigitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits.

7.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 10 ms.
- c. Offset=antenna gain+cable loss

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

7.1.5 EUT OPERATION CONDITIONS

Temperature: 24°C Relative Humidity: 60%Test Voltage: AC 120V/60Hz

7.1.6 TEST RESULTS

Please refer to the Attachment G.

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8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C / RSS-247						
Section	Section Test Item Limit		Frequency Range Res			
15.247(e) RSS-2475.2 (2)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5 PA			

8.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW=3KHz, VBW=10 KHz, Sweep time = auto.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

8.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

8.1.5 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 60%Test Voltage: AC 120V/60Hz

8.1.6 TEST RESULTS

Please refer to the Attachment H.

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9. MEASUREMENT INSTRUMENTS LIST

	Conducted Emission Measurement							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 27, 2017			
2	LISN	EMCO	3816/2	52765	Mar. 27, 2017			
3	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 27, 2017			
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 27, 2017			
5	Cable	emci	RG223(9KHz-30 MHz)(5m)	N/A	Mar. 10, 2017			
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A			

	Radiated Emission Measurement							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 27, 2017			
2	Amplifier	HP	8447D	2944A09673	Oct. 20, 2017			
3	Receiver	Agilent	N9038A	MY52130039	Sep. 04, 2017			
4	Cable	emci	emci LMR-400(30MH z-1GHz)(8m+5m		Jun. 27, 2017			
5	Controller	CT	SC100	N/A	N/A			
6	Controller	MF	MF-7802	MF780208416	N/A			
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A			
8	Amplifier	Agilent	8449B	3008A02274	Mar. 10, 2017			
9	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 27, 2017			
10	Receiver	Agilent	N9038A	MY52130039	Sep. 04, 2017			
11	Antenna	EM	EM-6876-1	230	Jul. 08, 2017			
12	Controller	СТ	SC100	N/A	N/A			
13	Controller	MF	MF-7802	MF780208416	N/A			
14	Cable	emci	EMC104-SM-S M-12000(12m)	N/A	Jul. 06, 2017			

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	6dB BandwidthMeasurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017		

	Peak Output PowerMeasurement							
Item Kind of Equipment Manufacturer Type No. Serial No. Calibrated								
1	Power Meter	ANRITSU	ML2495A	1128009	Mar. 27, 2017			
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Mar. 27, 2017			

	Antenna Conducted Spurious Emission Measurement						
Item	m Kind of Equipment Manufactur		Type No. Serial No.		Calibrated until		
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017		

	Power Spectral Density Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017		

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

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10. EUT TEST PHOTO







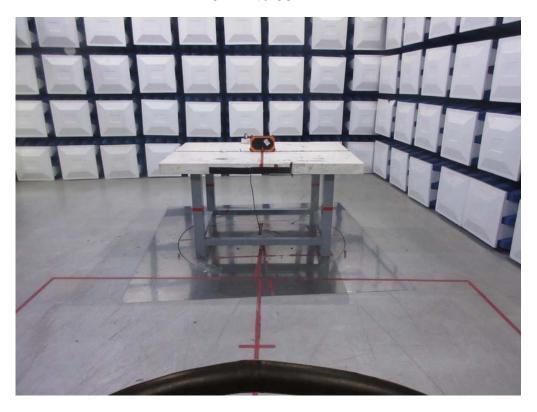
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Radiated Measurement Photos

9KHz to 30MHz





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Radiated Measurement Photos

30MHz to 1000MHz





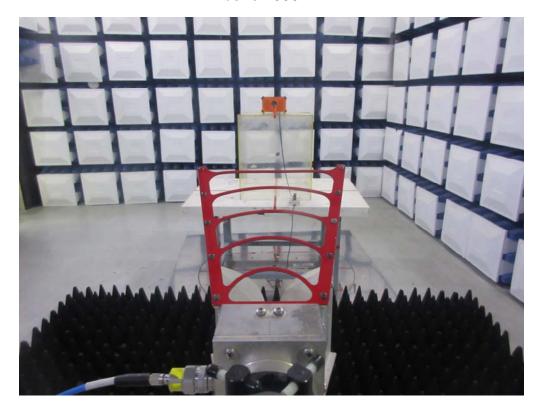
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Radiated Measurement Photos

Above 1000MHz





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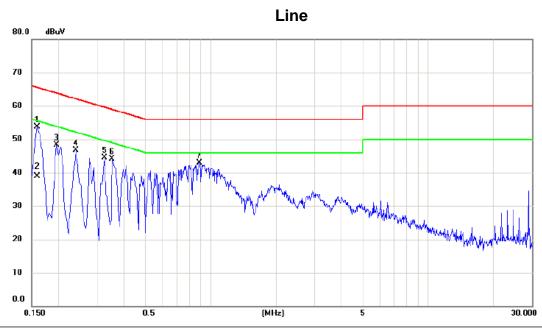


ATTACHMENT A - CONDUCTED EMISSION

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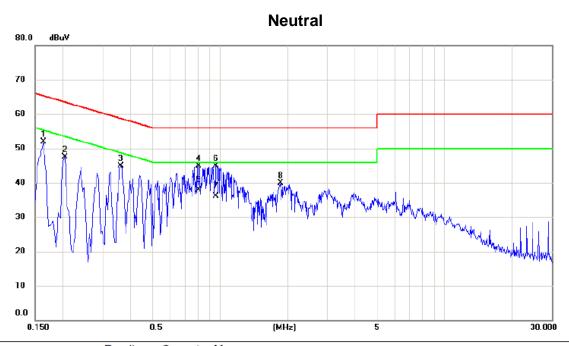


No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.159	44.23	9.57	53.80	65.52	-11.72	peak	
2	0.159	29.33	9.57	38.90	55.52	-16.62	AVG	
3	0.195	38.68	9.57	48.25	63.82	-15.57	peak	
4	0.240	37.18	9.57	46.75	62.10	-15.35	peak	
5	0.326	35.00	9.58	44.58	59.57	-14.99	peak	
6	0.352	34.50	9.58	44.08	58.90	-14.82	peak	
7	0.888	33.15	9.83	42.98	56.00	-13.02	peak	

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No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.164	42.48	9.50	51.98	65.28	-13.30	peak	
2	0.204	37.85	9.57	47.42	63.45	-16.03	peak	
3	0.361	35.43	9.56	44.99	58.69	-13.70	peak	
4	0.802	35.36	9.62	44.98	56.00	-11.02	peak	
5 *	0.802	28.33	9.62	37.95	46.00	-8.05	AVG	
6	0.960	35.11	9.74	44.85	56.00	-11.15	peak	
7	0.960	26.45	9.74	36.19	46.00	-9.81	AVG	
8	1.860	30.01	9.80	39.81	56.00	-16.19	peak	

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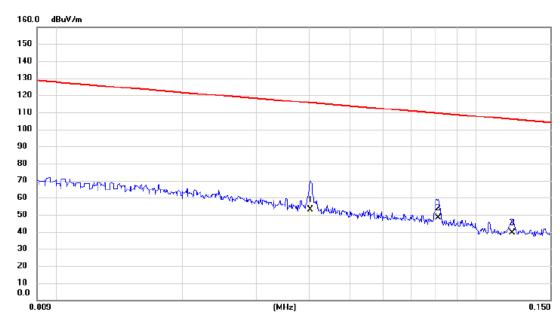
ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)

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Ant 0°



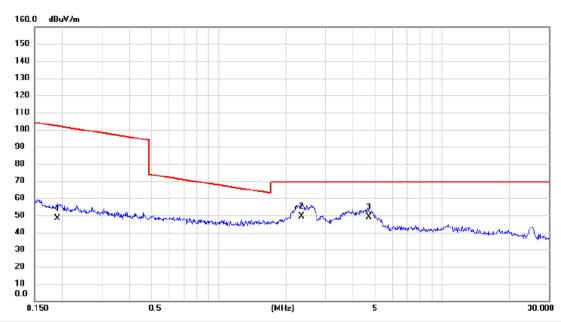
No. Mk.	Freq.			Measure- ment		Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.040	32.13	21.02	53.15	115.50	-62.35	AVG	
2 *	0.081	28.86	19.26	48.12	109.41	-61.29	AVG	
3	0.122	20.71	18.56	39.27	105.89	-66.62	AVG	

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Ant 0°



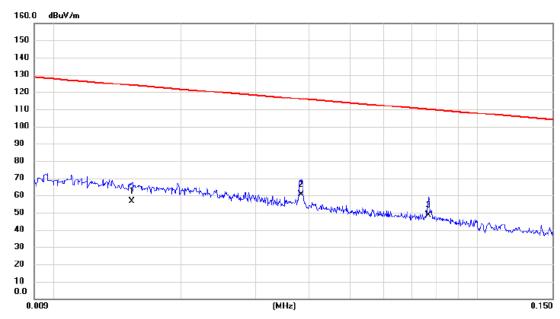
No. Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.190	29.49	18.70	48.19	102.01	-53.82	AVG	
2 *	2.346	32.00	17.46	49.46	69.54	-20.08	QP	
3	4.696	31.60	17.31	48.91	69.54	-20.63	QP	

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Ant 90°



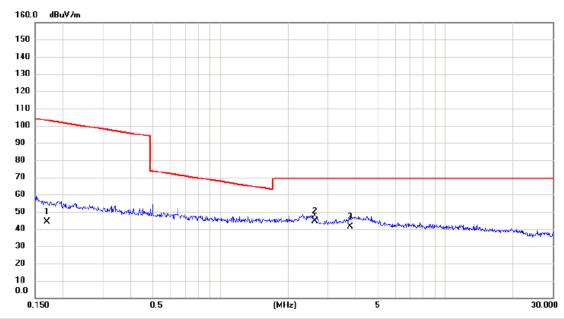
No. Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.015	32.62	23.80	56.42	123.91	-67.49	AVG	
2 *	0.038	39.40	21.25	60.65	115.92	-55.27	AVG	
3	0.077	29.30	19.46	48.76	109.92	-61.16	AVG	

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Ant 90°



No. Mk.	Freq.			Measure- ment		Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.170	25.51	18.72	44.23	102.98	-58.75	AVG	
2 *	2.622	27.33	17.11	44.44	69.54	-25.10	QP	
3	3.779	23.20	18.29	41.49	69.54	-28.05	QP	

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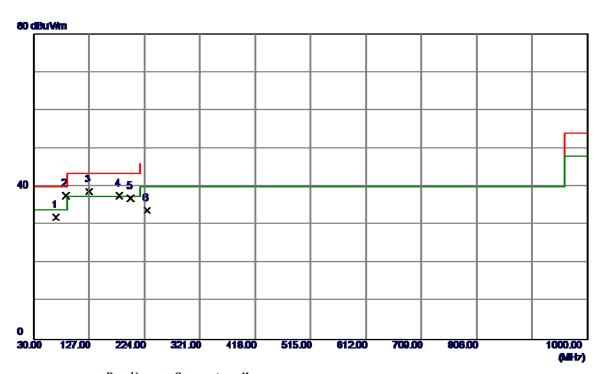
ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)

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Vertical



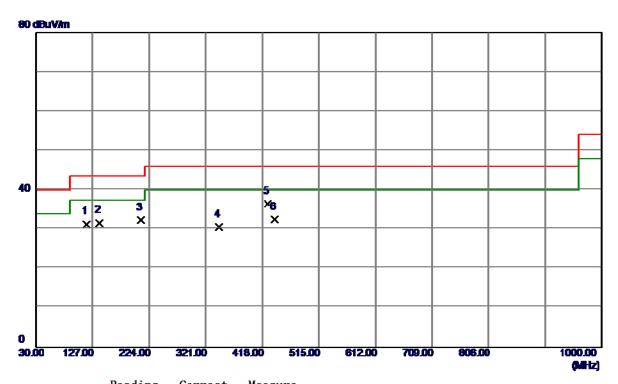
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	69. 2850	47. 00	-15. 01	31. 99	40.00	-8. 01	Peak	
2 *	85. 7750	53. 83	-16. 26	37. 57	40.00	-2. 43	Peak	
3	127. 0000	50. 28	-11. 58	38. 70	43. 50	-4. 80	Peak	
4	179.8650	49. 69	-12. 13	37. 56	43. 50	-5. 94	Peak	
5	199. 7500	50. 65	-13.63	37. 0 2	43.50	-6. 48	Peak	
6	227. 8800	46. 94	-13. 14	33. 80	46.00	-1 2.20	Peak	

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Horizontal



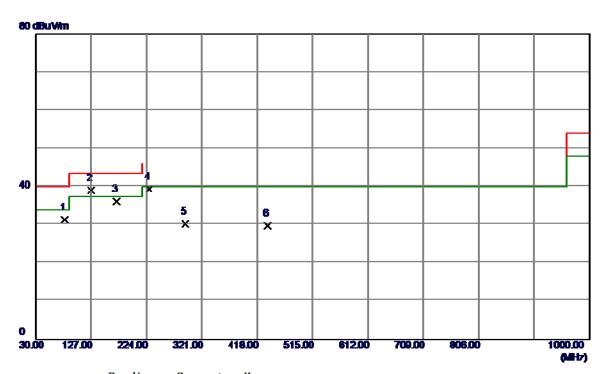
No.	Freq.	Reading Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	116. 8150	44. 29	-13. 01	31. 28	43. 50	-12. 22	Peak	
2	139. 1250	43. 41	-11. 81	31.60	43. 50	-11. 90	Peak	
3	209. 9350	46. 48	-14. 10	32. 38	43. 50	-11. 12	Peak	
4	343. 7950	41. 26	-10. 67	30. 59	46.00	-15. 41	Peak	
5 *	428. 1850	43.61	-7. 13	36. 48	46.00	-9. 52	Peak	
6	439. 8250	39. 53	−7. 10	32.43	46.00	-13. 57	Peak	

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Vertical



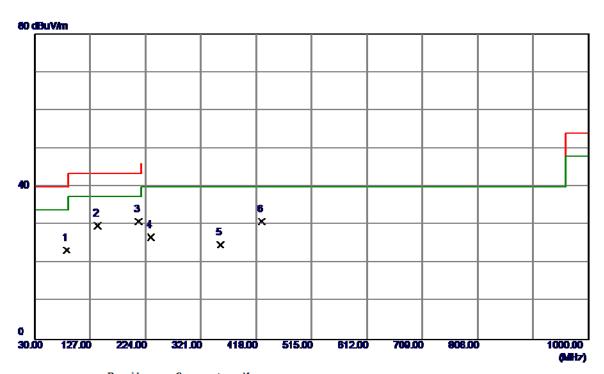
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	80. 4400	48. 03	-16. 72	31. 31	40.00	-8. 69	Peak	
2 *	127.0000	50. 68	-11.58	39. 10	43.50	-4. 40	Peak	
3	171. 1350	46. 99	-10.87	36. 12	43. 50	-7. 38	Peak	
4	228, 3650	52. 45	-13.09	39. 36	46.00	-6. 64	Peak	
5	291.9000	40. 21	-9. 97	30. 24	46.00	−15. 76	Peak	
6	435. 9450	36. 87	-7. 11	29. 76	46.00	-1 6.24	Peak	

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Horizontal



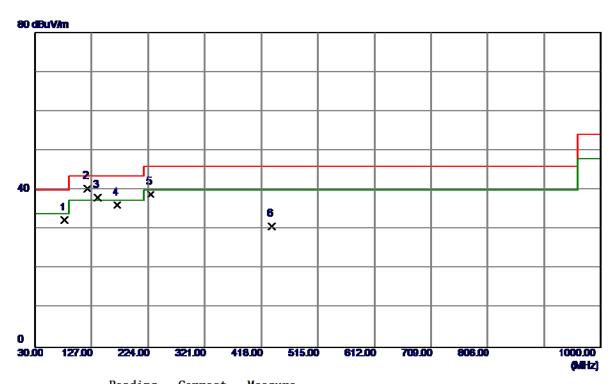
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	85. 7750	39. 68	-16. 26	23.42	40.00	-16. 58	Peak	
2	140.0950	41.62	-11. 88	29.74	43. 50	-13. 76	Peak	
3 *	212. 3600	44. 92	-14. 07	30.85	43. 50	-12.65	Peak	
4	233, 2150	39. 74	-13. 07	26. 67	46. 00	-19. 33	Peak	
5	355. 9200	35. 13	-10. 35	24. 78	46. 00	-21. 22	Peak	
6	428. 1850	38. 07	-7. 13	30.94	46. 00	-15. 06	Peak	

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Vertical



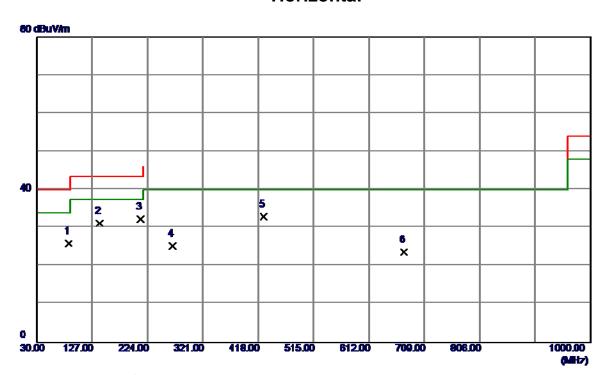
No.	Freq.	Reading Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	80. 4400	49. 03	-16. 72	32. 31	40.00	-7. 69	Peak	
2 *	120.6950	52. 84	-12.50	40.34	43. 50	-3. 16	Peak	
3	137. 6700	49.85	-11. 71	38. 14	43. 50	-5. 36	Peak	
4	171. 1350	46. 99	-10.87	36. 12	43. 50	-7. 38	Peak	
5	228. 3650	51. 95	-13. 09	38. 86	46.00	-7. 14	Peak	
6	435. 9450	37. 87	-7. 11	30. 76	46.00	-15. 24	Peak	

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Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	85. 7750	42. 18	-16. 26	25. 92	40.00	-14.08	Peak	
2	140.0950	43. 12	-11. 88	31. 24	43. 50	-12. 26	Peak	
3 *	212. 3600	46. 42	-14. 07	32. 35	43. 50	-11. 15	Peak	
4	268, 1350	37. 54	-12. 22	25. 32	46. 00	-20. 68	Peak	
5	428. 1850	40. 07	-7. 13	32.94	46. 00	-13. 06	Peak	
6	673. 5949	24. 90	-1. 20	23. 70	46. 00	-22. 30	Peak	

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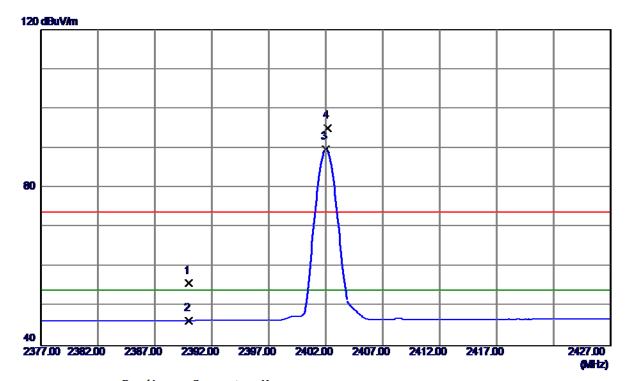
ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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Vertical



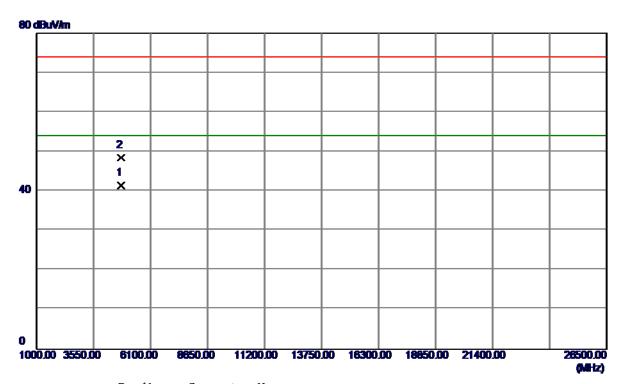
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	22. 87	33. 01	55. 88	74.00	-18. 12	Peak	
2	2390. 0000	13. 46	33. 01	46. 47	54.00	-7.53	AVG	
3 *	2402. 0000	56. 72	33. 06	89. 78	54.00	35. 78	ΛVC	No Limit
4	2402. 1500	61. 92	33. 06	94. 98	74.00	20.98	Peak	No Limit

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Vertical



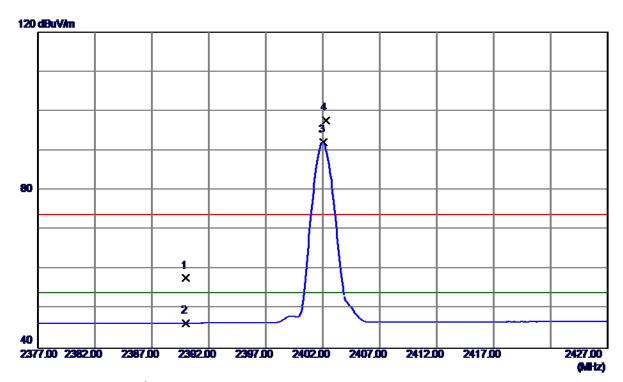
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4804. 0050	38. 40	3. 02	41. 42	54.00	-12. 58	AVG	
2	4804. 5600	45. 43	3. 02	48. 45	74.00	-25. 55	Peak	

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Horizontal



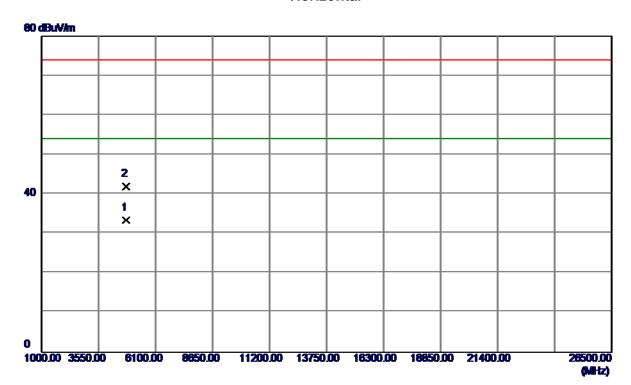
No.	Freq.	Reading Leve1	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	24. 74	33. 01	57. 75	74.00	-16. 25	Peak	
2	2390. 0000	13. 46	33. 01	46. 47	54.00	-7. 53	AVG	
3 *	2402. 0500	59. 12	33. 06	92. 18	54.00	38. 18	AVG	No Limit
4	2402. 2500	64. 60	33. 06	97. 66	74.00	23.66	Peak	No Limit

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Horizontal



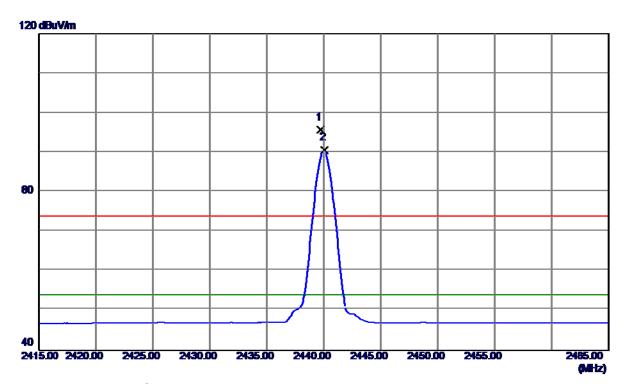
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4803. 9900	30. 47	3. 02	33. 49	54.00	-20. 51	AVG	
2	4804. 0550	38. 92	3. 02	41. 94	74.00	−32. 06	Peak	

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Vertical



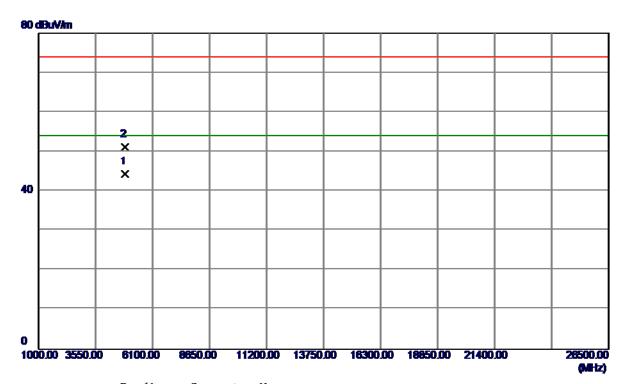
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2439. 7000	62. 48	33. 22	95. 70	74.00	21.70	Peak	No Limit
2 *	2440. 0500	57. 28	33. 22	90. 50	54.00	36. 50	AVG	No Limit

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Vertical



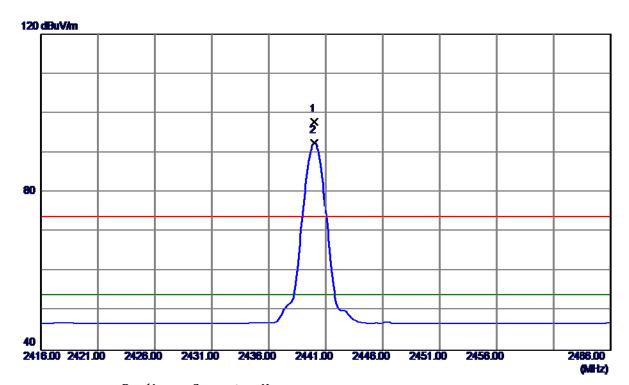
No.	Freq.	Reading Leve1	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4879. 9850	41. 10	3. 26	44. 36	54.00	-9.64	AVG	
2	4880. 0250	47. 87	3. 26	51. 13	74.00	-22. 87	Peak	

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Horizontal



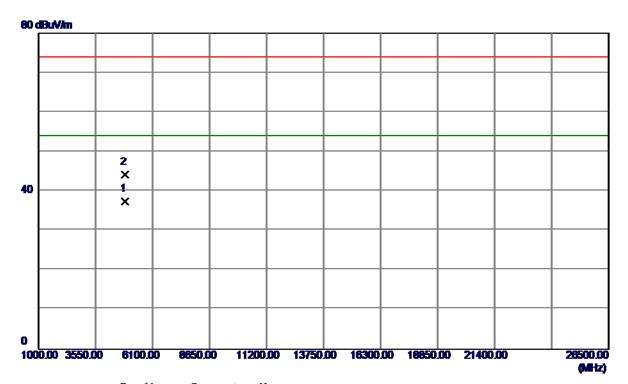
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2440. 0000	64. 55	33. 22	97. 77	74.00	23.77	Peak	No Limit
2 *	2440. 0000	59. 33	33. 22	92. 55	54.00	38. 55	AVG	No Limit

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Horizontal



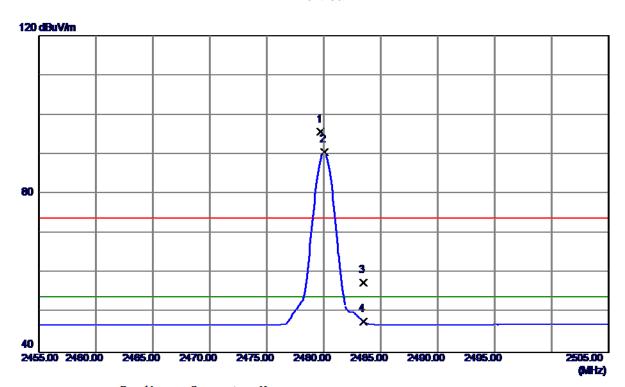
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4879. 9950	34. 12	3. 26	37. 38	54.00	-16. 62	AVG	
2	4880. 1250	40. 87	3. 26	44. 13	74.00	-29. 87	Peak	

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Vertical



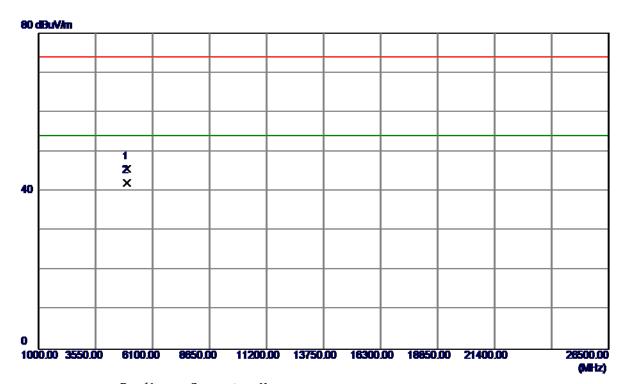
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2479. 7500	62. 25	33. 39	95. 64	74.00	21.64	Peak	No Limit
2 *	2480. 0500	57. 09	33. 39	90. 48	54.00	36. 48	AVG	No Limit
3	2483. 5000	24. 21	33. 40	57. 61	74.00	-16. 39	Peak	
4	2483. 5000	14. 23	33. 40	47. 63	54.00	-6. 37	AVG	

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Vertical



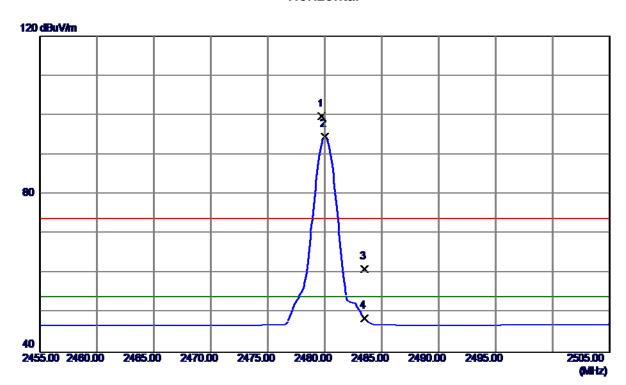
No.	Freq.	Reading Leve1	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4959. 4650	42. 12	3. 50	45. 62	74.00	-28. 38	Peak	
2 *	4959. 9650	38. 57	3. 51	42. 08	54.00	-11. 92	AVG	

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Horizontal



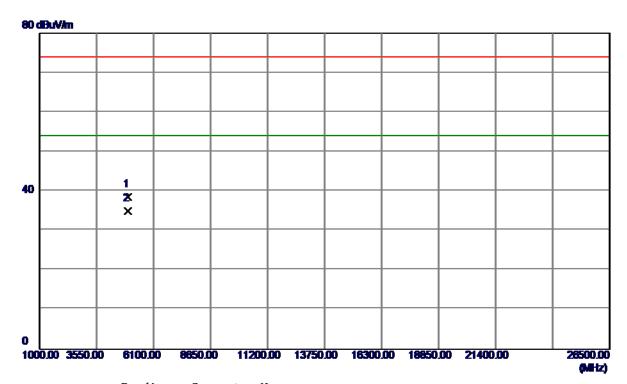
No.	Freq.	Reading Leve1	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2479. 7500	66. 34	33. 39	99. 73	74.00	25. 73	Peak	No Limit
2 *	2480. 0000	61. 13	33. 39	94. 52	54.00	40. 52	AVG	No Limit
3	2483. 5000	27. 74	33. 40	61. 14	74.00	-12. 86	Peak	
4	2483. 5000	15. 22	33. 40	48. 62	54.00	-5. 38	AVG	

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Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4959. 8500	35. 12	3. 50	38. 62	74.00	-35. 38	Peak	
2 *	4959. 9750	31. 57	3. 51	35. 08	54.00	-18. 92	AVG	

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ATTACHMENT E - BANDWIDTH

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Test Mode: TX Mode

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2402	0.683	1.040	500	Pass
2440	0.686	1.040	500	Pass
2480	0.688	1.040	500	Pass

TX CH00

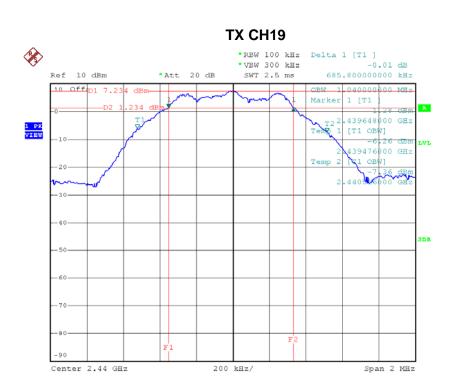


Date: 4.MAR.2017 17:29:07

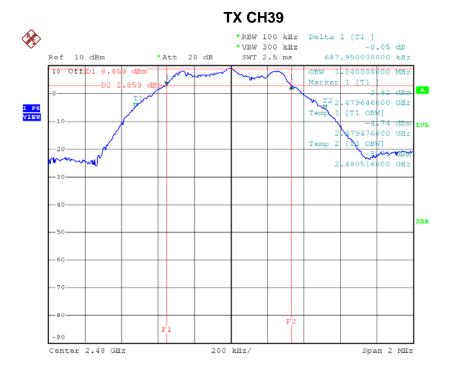
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Date: 4.MAR.2017 17:30:56



Date: 4.MAR.2017 17:32:28





ATTACHMENT F - MAXIMUM OUTPUT POWER TEST

Test Mode: CH00, CH19, CH39 - 1Mbps

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	4.95	0.0031	30.00	1.00	Pass
2440	5.23	0.0033	30.00	1.00	Pass
2480	6.84	0.0048	30.00	1.00	Pass

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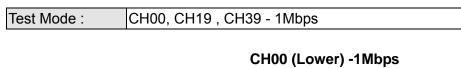


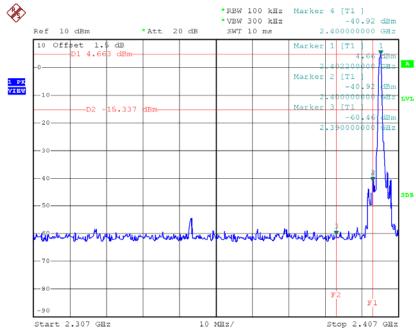
ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

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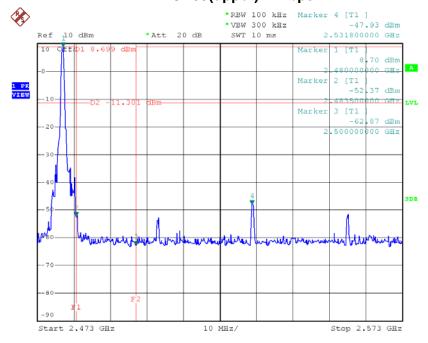






Date: 4.MAR.2017 17:29:17

CH39(upper) -1Mbps



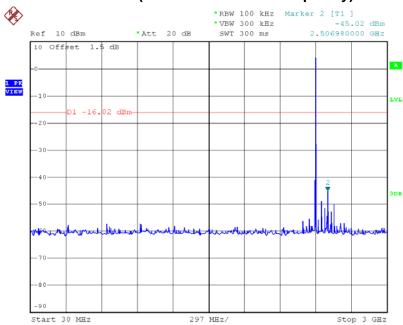
Date: 4.MAR.2017 17:32:36

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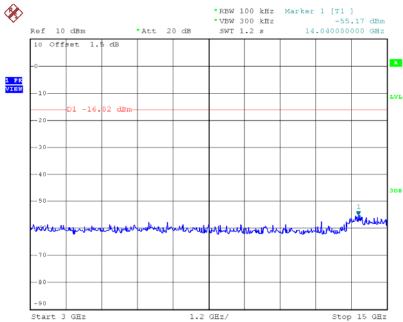






Date: 4.MAR.2017 17:29:31

CH00 (10 Harmonic of the frequency) 2

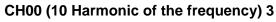


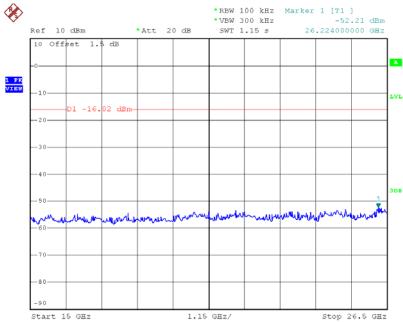
Date: 4.MAR.2017 17:29:39

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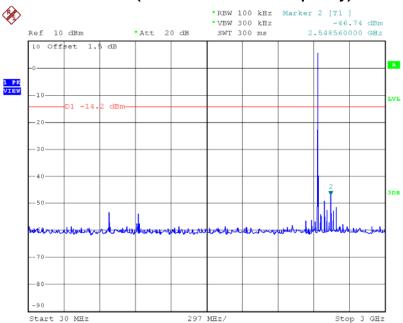






Date: 4.MAR.2017 17:29:48

CH19 (10 Harmonic of the frequency) 1



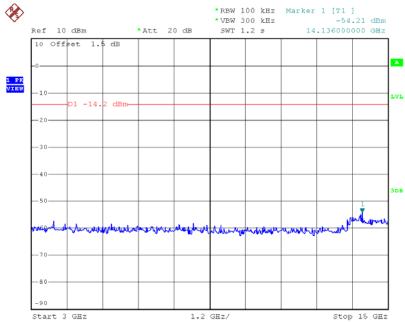
Date: 4.MAR.2017 17:31:09

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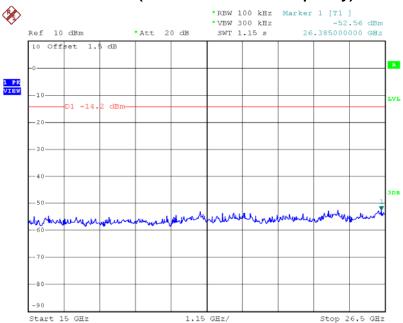






Date: 4.MAR.2017 17:31:18

CH19 (10 Harmonic of the frequency)3



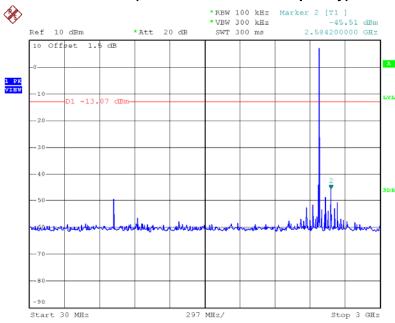
Date: 4.MAR.2017 17:31:26

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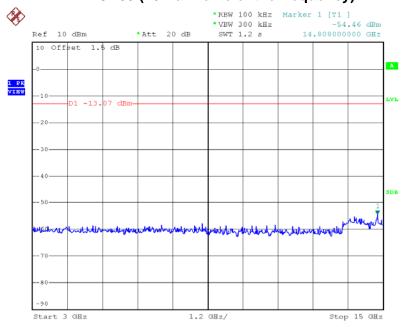






Date: 4.MAR.2017 17:32:50

CH39 (10 Harmonic of the frequency)2



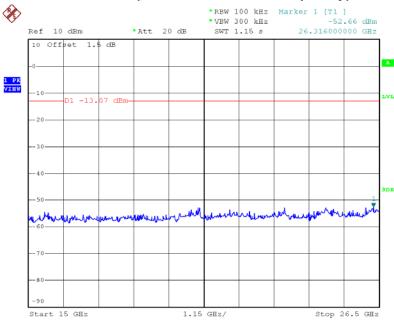
Date: 4.MAR.2017 17:32:58

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ATTACHMENT H - POWER SPECTRAL DENSITY TEST

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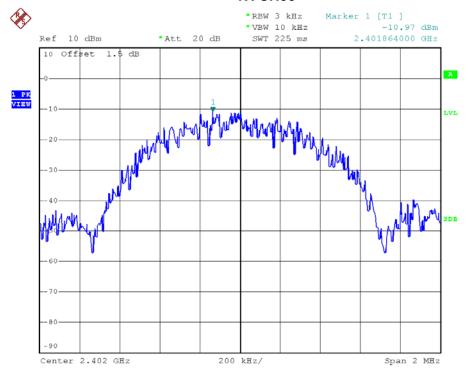




Test Mode: CH00, CH19, CH39 - 1Mbps

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Test Result
2402	-10.970	0.080	8.00	Pass
2440	-8.260	0.149	8.00	Pass
2480	-6.590	0.219	8.00	Pass

TX CH00



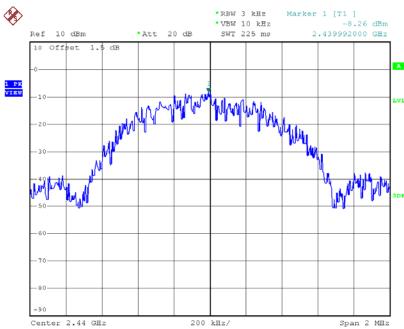
Date: 4.MAR.2017 17:29:54

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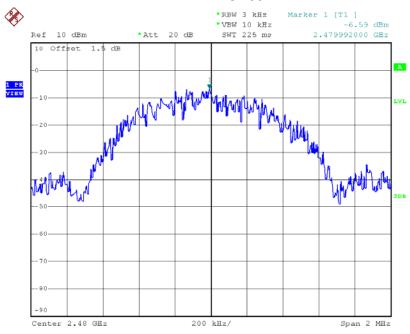






Date: 4.MAR.2017 17:31:32

TX CH39



Date: 4.MAR.2017 17:33:13